

8.1 Equation of a Circle Practice

Date _____ Period _____

Use the information provided to write the equation of each circle.

1) Center: $(-8, -10)$
Radius: 5

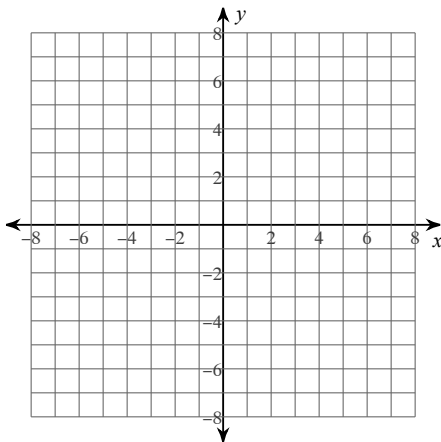
2) Center: $(15, -16)$
Radius: 1

3) Center: $(-8, 7)$
Radius: 4

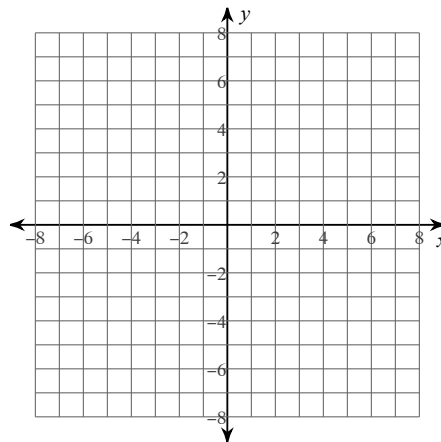
4) Center: $(-9, -8)$
Radius: 7

Identify the center and radius of each. Then sketch the graph.

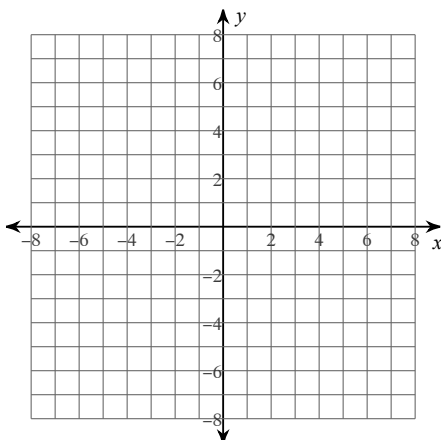
5) $(x + 1)^2 + y^2 = 11$



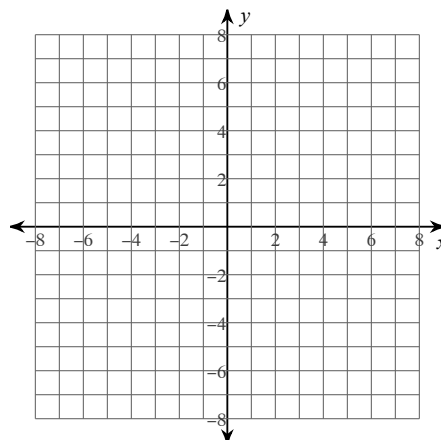
6) $(x + 2)^2 + y^2 = 4$



7) $(x + 3)^2 + (y - 4)^2 = 9$



8) $(x - 1)^2 + (y - 3)^2 = 14$



Use the information provided to write the equation of each circle.

9) Center: $(-11, -7)$

Point on Circle: $(-6, -8)$

10) Center: $(17, 5)$

Point on Circle: $(15, 5)$

Answers to 8.1 Equation of a Circle Practice (ID: 1)

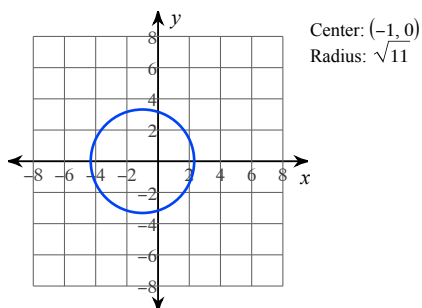
1) $(x + 8)^2 + (y + 10)^2 = 25$

2) $(x - 15)^2 + (y + 16)^2 = 1$

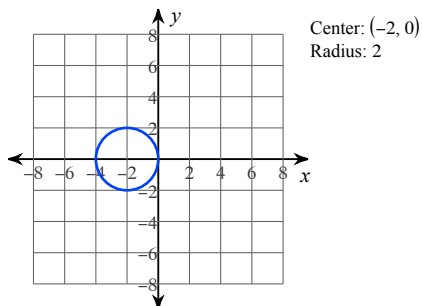
3) $(x + 8)^2 + (y - 7)^2 = 16$

4) $(x + 9)^2 + (y + 8)^2 = 49$

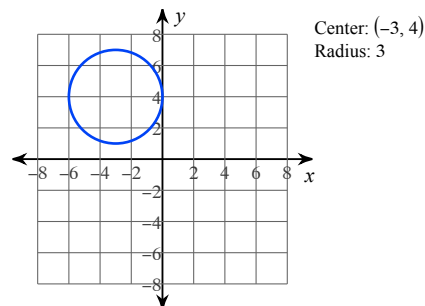
5)



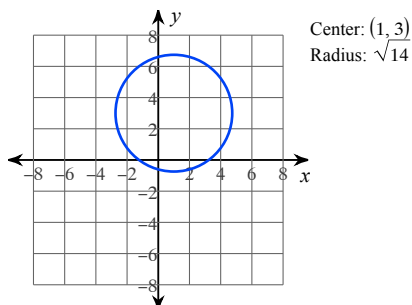
6)



7)



8)



9) $(x + 11)^2 + (y + 7)^2 = 26$

10) $(x - 17)^2 + (y - 5)^2 = 4$